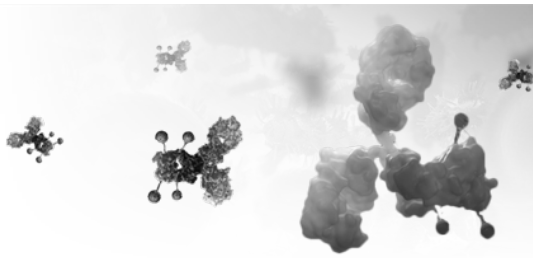

Anti-IGF1R monoclonal antibody, clone 1H7 [R-PE] (CABT-49018MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse anti Human CD221 antibody, clone 1H7 recognizes human CD221, a 155kD receptor tyrosine kinase, also known as Insulin-like growth factor I receptor (IGF-I Receptor). CD221 is composed of two extracellular alpha-subunits and two transmembrane beta-subunits. Clone 1H7 recognizes an epitope in the alpha subunits of CD221, demonstrated by Western blotting. CD221 is expressed in a range of tissues, including kidney, liver, placenta, mammary gland, brain, ovary and skin. The ligands for CD221 include IGF-I and IGF-II, which bind to CD221 and activate tyrosine kinase activity, resulting in phosphorylation of several intracellular signalling proteins. Clone 1H7 is reported to partically block binding of IGF-I and IGF-II to CD221. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.
Specificity	IGF1R
Immunogen	Purified human placental IGF-I receptor
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	1H7
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Size	100 tests
Preservative	0.09% Sodium Azide

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	IGF1R insulin-like growth factor 1 receptor [Homo sapiens (human)]
Official Symbol	IGF1R
Synonyms	IGF1R; insulin-like growth factor 1 receptor; IGFR; CD221; IGFIR; JTK13; IGF-I receptor; soluble IGF1R variant 1; soluble IGF1R variant 2; insulin-like growth factor I receptor;
Entrez Gene ID	3480
Protein Refseq	NP_000866
UniProt ID	P08069
Chromosome Location	15q26.3
Pathway	AMPK signaling pathway; Adherens junction; Apoptosis; Endochondral Ossification; Endocytosis; Focal Adhesion; Focal adhesion; FoxO signaling pathway;
Function	ATP binding; G-protein alpha-subunit binding; identical protein binding; insulin binding; insulin receptor binding; insulin receptor substrate binding; insulin-like growth factor I binding; insulin-like growth factor binding; insulin-like growth factor-activated receptor activity; phosphatidylinositol 3-kinase binding; protein binding; protein tyrosine kinase activity;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221